

Please Ente	r the Name o	f Your I	ocal	Govern	ıment:
Town of Apex					

State of North Carolina

Department of Environment and Natural Resources
Division of Waste Management &
Division of Pollution Prevention and Environmental Assistance

Solid Waste Management Annual Report July 1, 2007 -- June 30, 2008

COMPLETION AND SUBMISSION OF THIS REPORT WILL FULFILL THE ANNU.
MANDATE TO THE STATE AS REQUIRED BY G.S. 130 A_309.09A.

Please about the Barnera Valley and To AUGUST 11, 2008.

If you have questions or concerns, please contact the Division of Pollution Prevention and Environmental Sistance at 919-715-6500, the Solid Waste Section at 919-508-8400, or your Regional Environmental Senior Specialis

PW Engineering Project Coordinator		
Zip: 2750		
Date: 8-14-2008		
'No" if you ba	ve nothing to repo	
☐ No		
nental Program	us Manager	
Zip: 275	02	
pexnc.org		
⊠ No		
Zip:		
⊠ No		
Zip:		
collection, d	isposal, recycling	
	ollection, d	

PartLFull Cost Accounting

5.	What were the full costs of your local government's solid waste management program? To the best of your ability, please respond in the
	chart below. The following information will be needed to determine your cost per household and cost per ton.
	and cost per ton.

a. Solid Waste Collection -

Number of Households Served: 10,898

b*. Municipal Waste Disposal -

Total Tonnage of MSW Disposed by the Local Government: 13,319

c. Reduction, Reuse, Recycling -

Number of Households served by the Recycling Program: 11,536

d*. Reduction, Reuse, Recycling -

Total Tonnage of Recyclables Recovered by the Local Government: 2,727

e. Mulching/Composting -

Number of Households Served by the Mulching/Composting Program: 10,898

f*. Mulching/Composting -

Total Tonnage Handled by the Mulching/Composting Program: 3,952

To calculate the total cost per ton in the table below, **DO NOT** add the cost per ton of the 4 program categories; the total cost of all programs should be divided by the total tonnage managed by the local government.

Equation: Total cost per ton = [(program cost 1+2+3+4)/(b+d+f)]

Note: For additional assistance with this section, please contact your manager or finance director.

	1. Solid Waste Collection	2. Municipal Solid Waste Disposal**	3. Reduction, Reuse and Recycling	4. Mulching, Composting and Other Programs		
ProgramCost*	797,740.60	642,744.41	281,828.52	446,144.00	2,168,427.50	
Cost per Household***	73.20	58.98	24.43	40.94		
Cost per Ton	59.89	48.26	103.33	112.89	108.43	

^{*} Item is needed to calculate cost per household and/or costs per ton.

Overall Program Com from about 11 12 12 14 -

	O.O. III I IOgraiii	COST (1011 800VE (1+2+3+4) ···	2,168,427.50		
	Tota	Tonnage Managed (b+d+f) =19,998			
ó.	If your local government contr	acts for solid waste or recycling services, please repor	rt the annual contract amount.		
	\$1,440,785.00	For solid waste services per year			
	\$281,828.52	For recycling per year			
		OR			
	\$	Combined Contract (solid waste and rec	veling)		

According to GS 130A-309.08, local governments are required to conduct full cost accounting annually and to develop a system to inform users of such costs.

^{**} Estimate either 1. Full-cost of disposal (landfill, transfer station, etc.) including applicable closure costs, or 2. The tipping fee paid by your local government to a disposal facility.

^{***} If you are collecting commercial/industrial solid waste or recyclables, you do not need to complete the cost per household section.

		·	Part	H. In-House Programs		
The emp	following questions periologies.	ain to in-house activ		is waste reduction activities/programs that a	ere available t	o local government
7.	Did your local governm	nent have an in-hous	se waste re	duction program in place?	⊠ Yes	□ No
8 . 9.		ction/toxicity reduction.	ion	es were in place: Recycling Reuse encouraging or requiring local agencies to	Yes	⊠ No
			Pari	III. Public Programs		
S	Source Reduction / Reuse	before it is gener solid waste. Sout	ated, i.e., i rce reduct	d as avoiding the creation of waste by reduct duplex copying and/or printing or other simi ion is not recycling. Reuse programs target tot warrant disposal. Reuse includes program	lar action that items that are	avoids the generation in adequate condition
10.	Did your local governm	ent have a backyard	i composti	ing program?	⊠ Yes	□ No
1],	If yes, please check all to Promotion Education Demonstration			ribution/sales Bins distributed? 28		
12.	Did your local governm	ent have a source re	duction p	rogram targeted to the public?	— ⊠ Yes	□ No
13.	If yes, please indicate th Grasscycling Xcriscaping (Junk Mail Re	(landscaping with le		Enviroshopping (shopping for source) Use of non-toxics in homes/businesses Other Compost Bins sales and Prome	5	
14.	Did your local governm	ent offer a waste ex	change or		☐ Yes	⊠ No
15.	If yes, please indicate w Swap shop/sh Number of sheds Paint exchang Number of gallor	ned s in use? ge	e available	to the public: Waste exchange Pallet exchange Other		A constant of the second

9193672808

Recyclables Recovery

After source reduction, recycling is the State's next highest priority for managing solid waste. The following questions deal with your local government's programs for recovering recyclables.



10.	which of the following responses best describes your recyclables recovery activities for the periodJuly 1, 2007 through June 30, 2008? My local government DID operate or contract for a recyclables recovery program.
	My local government DID NOT operate or contract for recyclables recovery BUT DID participate in a recyclables recovery program sponsored by another local government. (Please identify the public agency/organization responsible for its operation; then go to Part IV on page 7.) With what local government did you participate?
	My local government DID NOT operate, contract or participate in a recycling program. (Go to Part IV on page 7.)
If y and	ou DID operate or contract for a recyclables recovery program, please indicate the type of program in operation specifics about your program.
CU	RBSIDE RECYCLING PROGRAM
17.	Curbside Recycling Program Yes No
18.	Who collected the recyclable materials for your local government's curbside program? [Local government employees
	Private contractor Waste Industries
	Other (please specify)
19.	Please answer the following questions about your community. a. Total number of households? 10,898
	b. Number of households served by curbside recycling? 11,536
	c. Please estimate the number of households that regularly participate in the program? 7,146
20.	What sector(s) of your community was served by the program? Residential Commercial Industrial
21.	If you checked commercial or industrial in question 20, please indicate the number of accounts served: 132
22.	How frequently were the curbside recyclables collected? Once a week Description Other
23.	Please describe the containers used.
	☐ Blue bags
	Multi-bin system Roll-out carts

DR	OP-OFF RECYCLING PROGRAM
24.	Drop-off Recycling Program?
25.	Who collected the recyclable materials for your local government's drop-off recycling program? Local government employees
	Private contractor
	Other (please specify)
26.	Please estimate the number of households served. 10,898
27.	Please estimate the number of households that actively use your local government's drop-off recycling program. 132
28.	What sector(s) of your community was served by the program? Residential Commercial Industrial
29.	How many drop-off locations did you provide for the citizens in your jurisdiction? Number of Sites: 1
30.	How many of these locations were staffed with attendants?
	Some (please identify how many)
	☐ None
MI	XED WASTE PROCESSING
31.	Mixed Waste Processing - Did your local government utilize mixed waste processing?
	Note: Mixed waste processing requires the use of a permitted facility where select recyclables are removed from municipal solid waste.
OT.	HER RECYCLING PROGRAMS
	NOT include in-house activities here. List only programs operated or contracted for by the local government.
	Please identify all "Other" programs available during FY 07-08. (check all that apply and indicate tonnages on the next page) Electronics Recycling
	Permanent Annual or Scheduled Collection Days Part of HHW Program
	School-based Programs
	Scheduled collection drives (quarterly, once a year, etc.)
	Curbside White Goods Collection
	Were white goods delivered to the county for marketing? Yes No
	Commercial Collections
	Industrial Collections
	Other Programs (please specify) Used Motor Oil Drop Off
33.	Does your local government provide on-site recycling services to Alcoholic Beverage Commission permit holders? Yes No
	On-site services Provided Estimated number of ABC accounts:
	Drop-off sites available

RECYCLING TONNAGES

- a. For ALL the recycling programs operated or contracted for by your local government, please provide TONNAGES (or estimates) for each material collected for the period JULY 1, 2007 through JUNE 30, 2008.
- b. Do NOT report YARD WASTE, TIRES, USED OIL, LEAD ACID BATTERIES, or ANTI-FREEZE tonnages on this page.
- Please report materials collected in tons only. (One ton equals 2,000 lbs.) For example, 2,500 lbs. should be reported as 1.25 tons. Please only extend numbers to two decimal places (x.xx).

PROGRAM	Curbside		Drop-off		Mixed Waste Processing		All "Other" Programs		
	Collect?	Tons	Collect?	Tons	Collect?	Tons	Collect?	Tons	Total Tons
GLASS:									
Clear		m							<u> </u>
Brown							╅		
Green		•			$+ \vdash \vdash$		╅		
Mixed		61.25						-	
PLASFIC;									
PETE#)									
HDPE #2				- "			+-;;		
Other Plastic							+ -	·· · · · · · · · · · · · · · · · · · ·	
Mixed Plastic				 -			 		
All Plastic Bottles	3:	23.80						*	
MULAL									
Aluminum Cans	X 1:	29,52							
Strel Cans	X *	3.17							
White Goods									
Other Metal									
PAPER									
Newsprint (ONP)	× X	77,59							
Cardboard (OCC)								····	
Magazines (OMG)	X					*******			
Office Paper									· · · ·
Mixed Paper (MPW)									
Other Paper									***************************************
WOOD.									
Pallets (refurbished,		"-							
reused, fuel) Other wood - DO NOT		,							
Utner wood - DO NO I list wood tons here from yard waste pg. 8								i	
OTHER MATERIALS.									
Textiles									
Electronies			 - - - - - - - - - -				┼┼┼┼		
C&D Recovery	┝	- 148	 						
Cardhoard	⊠ 85	50,42			 - - - 		 		
Ionk Mail		1.58						- · · · · · · · · · · · · · · · · · · ·	
Commingled tons (check all items collected above)									
TOTAL TONS:	2	727,55					T F		

	Part IV, Special Wastes	
The ban	e following questions concern your local government's provisions for managing waste materials that require special handling med from landfilling.	or are
Use	ed Oil and Oil Filters	
34.	Did your local government provide public collection sites for used oil? X Ycs No	
35.	If Yes, how many sites? 1	
36.	Number of gallons collected? 2115 gallons	
37.	Did your local government provide public collection sites for used oil filters? [Yes No	
38.	If Yes, how many sites?	
39.	Amount collected: Filters or Barrels or	Tons
Ant	tifreeze	
40.	Did your local government provide public collection sites for antifreeze?	·
41.	If Yes, how many sites?	
42.	Number of gallons collected? gallons	
Lead	nd Acid Batteries	
43,	Did your local government provide public collection sites for antifreeze?	
14 .	If Yes, how many sites?	
45.	Number of batteries collected? batteries	
Tire	es	
	If collected, how many tons of tires did your program recover?tons	
Hou	usehold Hazardous Waste (HHW)	
47.	Did your local government provide for the collection of pesticide containers (e.g., NCDA program)? Tyes	
48.	Did your local government offer a latex paint collection program separate from the collection of household	
	hazardous waste?	
49.	Did your local government provide specifically for the collection of household hazardous waste? Yes No If Yes, please respond to the following questions:	
	a. Was it collected at a permanent site? Yes No	
	b. Quantities collected (in pounds) pounds	
	c. Frequency of collection	
	d. Contractor(s) involved	
	e Estimated cost of the program	

Yara	i waste may not be disposed in sar	V. Mulching, Co					
are j	popular management options.	may ranayus, momeras	ors, or m	unpermittea sites	ana u is iiie	igai so burn.	Composting and mulching
50.	Does your local government prov	ride either of the followis	1 g ? 🔲	C&D recycling	□ ca	&D salvage/re	eusç
	If yes, check all materials that we Clean Wood Brick, co	re included (please repor prorete, etc. Sheetr	_				
c 1			-	Vinyl siding	Meta	ls Othe	er ·
51.	Does your local government have demolition waste? Yes	e an ordinance regulating No	the mana	igement of constru	ction and		
52.	Does your local government colle	ect yard waste at curbside	e?	⊠ Yes □	No		
53.	Does your local government prov	ide a drop-off site for ya	rd waste o	collection?	Yes	⊠ No	
54.	Where is collected yard waste tak	en? Hwy. 55 C&D Land	dfill				
55.	What quantities of materials were received. For conversion purpose	managed in your progra es, use 400 lbs./cubic yd.	m? Prov	ide information i	n TONS <u>O</u> J	R CUBIC YA	ARDS of material
	Destinatio	n	_	heck box if nation is used			úc Debris rush, limbs, etc.)
	End use (a. 6					Tons	Cubic Yards
	End user (to farmer or home-owner	•		_ <u>⊠_</u>	20		
	Your own local government's mul	-					
	Other public mulch or compost fa	cility					
	Private mulch or compost facility						
	Land clearing and inert debris lan	dfill (LCID)	 	×	3932		
	Total		3952				-
	the grand total for all trucks in the Size of Truck (in yards)	e appropriate boxes above vg. no. of times truck fills each	x			$\frac{ds = 480 \text{ y}d^3}{\text{TOT}}$	ya ^s
		Part VI. Solid W	aste C	ollection & l	Disposal		
6.	Please estimate the population of	your community				_	
7.	Please complete the following tab	le regarding your solid w	aste colle	ection (curbside or	drop-off pro	— perams) and d	lisnosal propram
	Sector	Who Collects Solid	Waste?	How is Solid Wa	ste Collecte	ed?	
	Residential	B		1 l	20203 0010		
	Commercia)	В	···	2			
	Industrial	D	**	N/A			
		Who Collects Solid W	este?	How is Solid Wa	te Collected?		
		 a. Local government employe b. By Contract 	ecs	 Once a week at hou Twice a week at hou 			
			3. Convenience center	/greenbox			
		d. Local government not invo- provision of service	lved in	4. As needed or by req5. Daily6. Other	uest		
8.	If collected at the household, when	re is solid waste picked u	φ? <u></u>		Curbsid	e	
9.	What type of curbside collection r	nethod is used?		•			
			Manual	Don't know			•

	Waste Educational Activities
60. Did your local government have an education program activities? Yes No (If No. skin	to inform the citizens specifically about solid waste management issues/
□ 140 (11 140, 3KIP	to Part VIII) id your local government conduct or produce? (Check all that apply)
Radio/TV advortisements	Website (Check all that apply)
Block leader program	"RE 3" Campaign
Newspaper ads/articles	The Recycle Guys"
Mass mailings/utility bills, etc.	Reward Program
Award program for businesses	Workshops, forums, or conferences
Grant program for businesses	Public schools programs
Take-home items (brochures, magnets, etc.)	Special events
Telephone "hotline"	Other (please specify)
62. Please provide your recycling website address and hotline	phone number if applicable.
Website: www.apexnc.org/depts/pw/recycle	Hotline: 919-249-3427
B	
	s for Solid Waste Management
Sufficient resources available to solid waste management progr questions deal with resources allocated to solid waste managen	rams are essential for continued success of these programs. The following ment programs
63. Did your local government operate an Enterprise Fund for	
	_ _
Comment of the state of the sta	weight-based fees (e.g. PAYT) Tire tax
	ecyclables White Goods tax
✓ Per household charges	Other
65. If applicable, please provide your FY 07-08 household fee	s. (e.g., a. \$45.00 per <u>year</u> per <u>household</u> for solid waste)
a. \$ 92 per Month	per Household for solid waste
рој	per trouselled for solid waste
b. \$ 2	per Household for recycling
c. \$ 3 per Month	per Household for yard waste
	per for yard waste
d. \$ per See Next Sheet	per for bulky waste
a ¢	
t. S per	per availability fee
£ \$ 13 per Month	per Household total charge
66. Did your local government have a Pay-As-You-Throw no	
the amount of trash disposed.) Yes No	ogram for residential garbage? (Residents are charged by weight or volume for
- , <u> </u>	

Comments

We would appreciate your comments about this report or other matters regarding solid waste management inNorth Carolina. Thank you for your time. Attach additional sheets if needed.

GARBAGE

Residential

\$8.92 (Monthly Charge)

- Curb-side Service
- Emptied 1 Time per Week
- \$3.00 Yard Waste

Commercial

\$17.84 (Monthly Charge)

- Empticd 2 Times per Week

Dumpster Service

4 CY - \$105.12 (Monthly Charge)

6 CY - \$141.44 (Monthly Charge)

8 CY - \$184.59 (Monthly Charge)

* All Dumpsters Emptied 2 Times per Week.

Recycling
Residential & Commercial
\$2.05 (Monthly Charge)

Assistance

The Division of Pollution Prevention and Environmental Assistance's Local Government Assistance Team is ready to assist you in any way we can. Please visit our Web site at www.p2pays.org/localgov or e-mail us at jim.hickman@ncmail.net







www.CLEANUP.org